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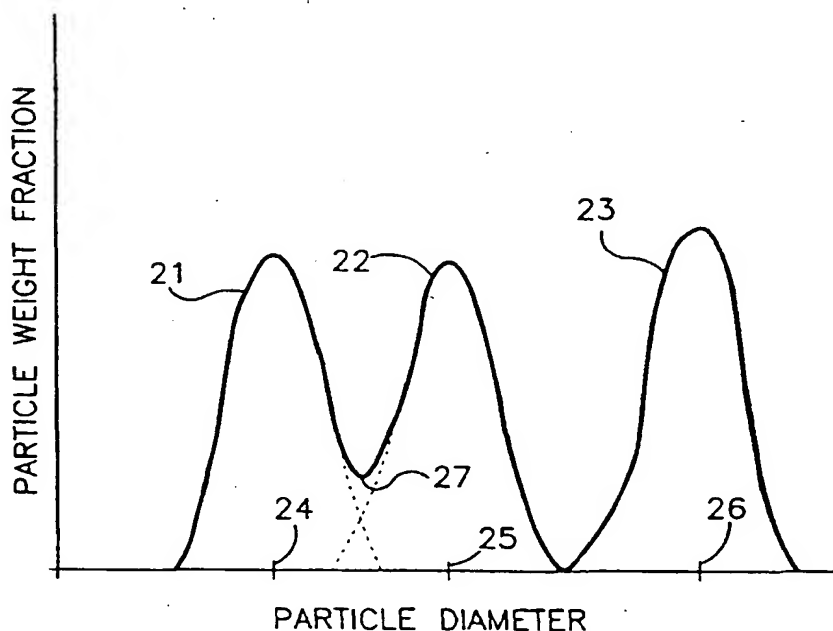
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(54) Title: COMPOSITION FOR EQUALIZING RADIAL AND LATERAL FORCE VARIATIONS AT THE TIRE/ROAD FOOT-PRINT OF A PNEUMATIC TIRE



(57) Abstract: A composition or particle mixture (20) for equalizing radial and lateral forces at the tire/road footprint of a pneumatic tire (11) due to tire/wheel assembly imbalance, non-uniformity of the tire, temporary disturbances in the road surface, or other vibrational effects of the unsprung mass of a vehicle whereby the particle mixture (20) is inserted into the interior of the tire (11). The composition is a dry solid particle mixture (20) wherein the particles are freely flowable and non-tacky at elevated tire temperatures, the particle mixture (20) is essentially devoid of liquid material, and the particle mixture (20) comprises two or more sets of particles wherein each set consists essentially of particles of a predetermined size or size range. The particle mixture (20) exhibits a multimodal particle size distribution.

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